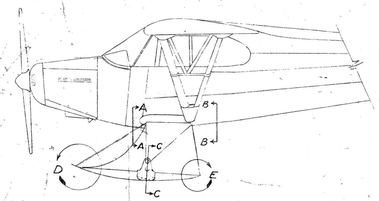
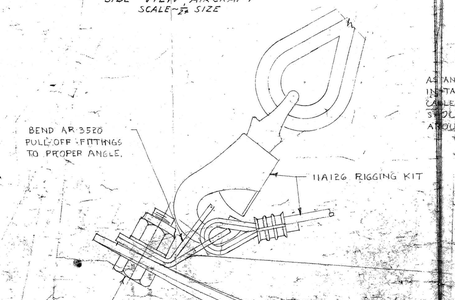
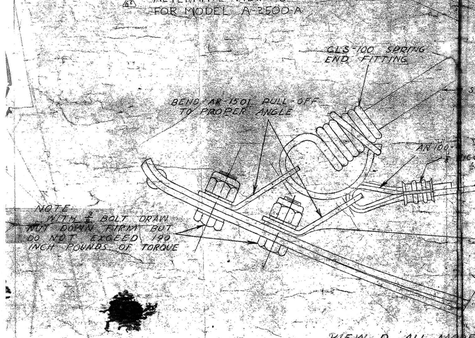


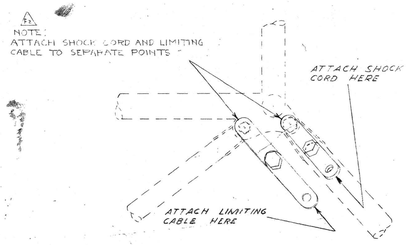
SIDE VIEW AIRCRAFT
SCALE - 1/32 SIZE


BEND AR-3520 PULL-OFF FITTINGS TO PROPER ANGLE.
11A126 RIGGING KIT
NOTE: WITH ½" BOLT, DRAW NUT DOWN FIRM, BUT DO NOT EXCEED 690 INCH-POUNDS OF TORQUE.

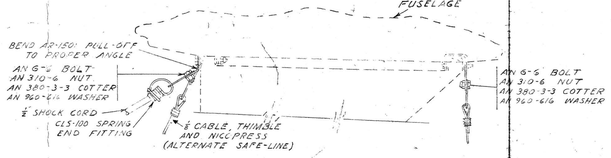
⚠4 ALTERNATE VIEW 'D' FOR MODEL A-2500A


CL5-100 SPRING END FITTING
SHOCK CORD
BEND AR-1501 PULL-OFF TO PROPER ANGLE
AN100-4 THIMBLE
⅛ NICOPRESS & ⅛19 CABLE
NOTE: WITH ½ BOLT DRAW NUT DOWN FIRM, BUT DO NOT EXCEED 690 INCH-POUNDS OF TORQUE

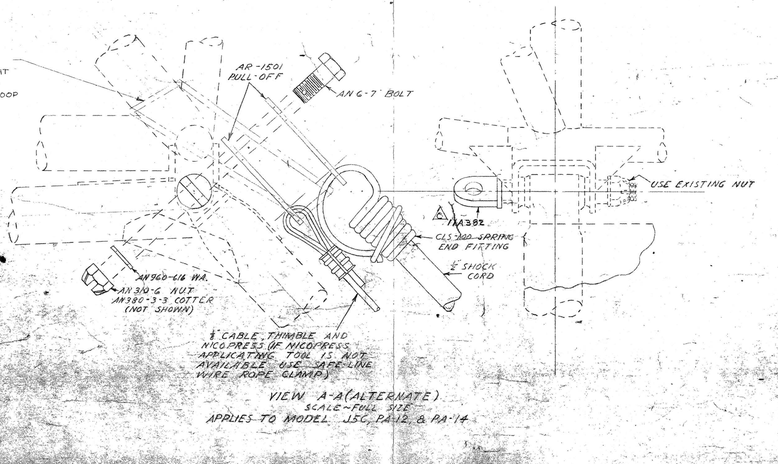
VIEW D, ALL MODELS EXCEPT A-2500A FOR WHICH SEE ALTERNATE VIEW 'D' ABOVE
SCALE - FULL SIZE



VIEW A-A
SCALE - HALF SIZE
APPLIES TO MODEL J3, J3C, PA-11, J3F, J3L, J4, J4A, J5A, J5B, PA-15 AND PA-17.

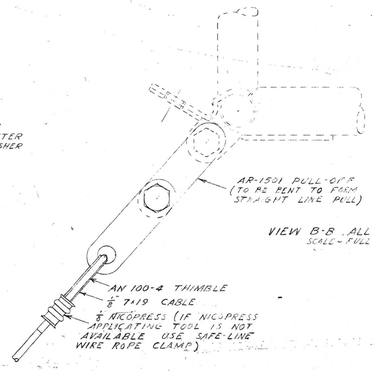


LANDING GEAR 'V'
SCALE - ½ SIZE

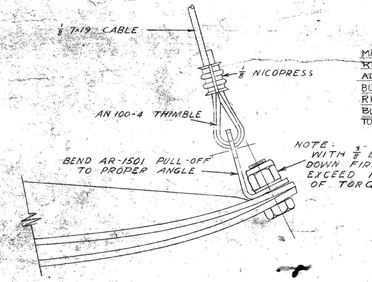

⚠3
AS AN ADDED SAFETY PRECAUTION, INSTALL AN ADDITIONAL INDEPENDENT CABLE THRU THE THIMBLE EYE AND SHOCK CORD RING AND SECURELY LOOP AROUND THE STRUT AS SHOWN.
AR-1501 PULL-OFF
AN 6-7 BOLT
USE EXISTING NUT
11A382
CL5-100 SPRING END FITTING
⅛ SHOCK CORD
AN 960-616 WA.
AN 310-6 NUT
AN 380-3-3 COTTER (NOT SHOWN)
⅛ CABLE, THIMBLE AND NICOPRESS (IF NICOPRESS APPLICATING TOOL IS NOT AVAILABLE USE SAFE-LINE WIRE ROPE CLAMP)

VIEW A-A (ALTERNATE)
SCALE - FULL SIZE
APPLIES TO MODEL J5C, PA-12, & PA-14

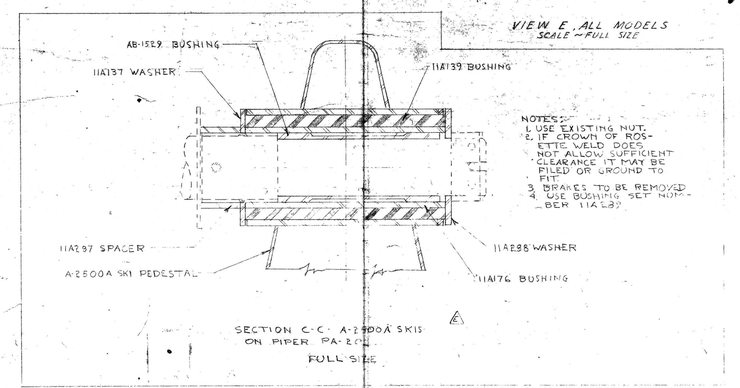
NOTES REGARDING SHOCK CORD AND CABLE LENGTHS
MAIN SKI:
THE FRONT LIMITING CABLE SHOULD BE OF SUCH A LENGTH THAT WHEN THERE IS NO LOAD ON THE GEAR AND AIRPLANE IS IN FLYING POSITION THE SKI CAN PITCH NOSE DOWN 25° (2° ON MODEL J4 & J4A) MEASURED ON TOP OF THE CHANNEL RELATIVE TO THE LEVEL OR REFERENCE LINE.
AFT LIMITING CABLE TO ALLOW THE SKI TO PITCH NOSE UP 4° MEASURED WITH CONDITIONS AS ABOVE.
SHOCK CORD TO BE PRELOADED 1.5 TO 2.0 INCHES WHEN AFT CABLE IS TAUT AND NO LOAD IS ON GEAR.


AR-1501 (TO BE RIVETED TO FORM STRAIGHT LINE PULL)
AN 100-4 THIMBLE
⅛ 7x19 CABLE
⅛ NICOPRESS (IF NICOPRESS APPLICATING TOOL IS NOT AVAILABLE USE SAFE-LINE WIRE ROPE CLAMP)

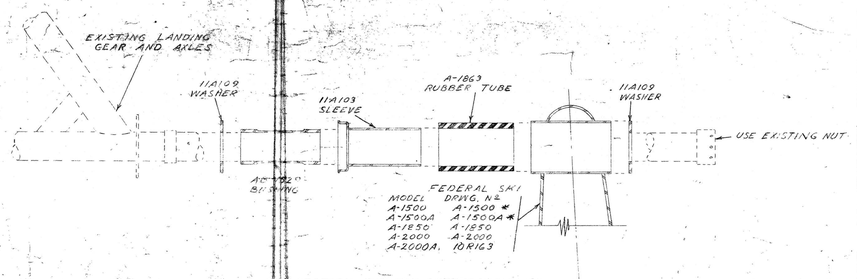
VIEW B-B ALL MODELS
SCALE - FULL SIZE


⅛ 7x19 CABLE
⅛ NICOPRESS
AN 100-4 THIMBLE
BEND AR-1501 PULL-OFF TO PROPER ANGLE
NOTE: WITH ⅜ BOLT DRAW NUT DOWN FIRM, BUT DO NOT EXCEED 190 INCH POUNDS OF TORQUE.

VIEW E, ALL MODELS
SCALE - FULL SIZE


AB-1529 BUSHING
11A137 WASHER
11A139 BUSHING
NOTES:
1. USE EXISTING NUT.
2. IF CROWN OF ROSETTE WELD DOES NOT ALLOW SUFFICIENT CLEARANCE IT MAY BE FILED OR GROUND TO FIT.
3. BRAKES TO BE REMOVED.
4. USE BUSHING SET NUMBER 11A289.
11A297 SPACER
A-2500A SKI PEDESTAL
11A298 WASHER
11A176 BUSHING

SECTION C-C: A-2500A SKIS ON PIPER PA-20
FULL SIZE



SECTION C-C, ABOVE MODELS ONLY
SCALE - HALF SIZE

FOR SKI MODEL CA-1850-8 SEE DWG. NO. 11R163

REVISIONS				
LETTER	DATE	CHANGE	BY	APP'D
A1	11-19-48	NOTE "SKI TAIL" ADDED		
A2	12-19-48	MODEL PA-14 ADDED		
A3	1-19-49	NOTE "SKI TAIL" ADDED		
B	2-12-49	MODEL J4-14 INCLUDED		
C	10-1949	WAS ANALYZED EYE BOLT		
D	7-17-50	PA-20 AND PA-20 "S" ADDED		
E	1-6-53	ADDED ALT. TAIL SECTION, C-C PERTINENT TO A-2500A SKIS ON PA-20 TO F/L & P/L		
F1	2-15-57	ADDED CABLE INFO.		
F2	2-15-57	REMOVED "WHEREVER POSSIBLE"		
G1	12-28-59	ADDED NOTE		
G2	4-7-63	ADDED ALTERNATE VIEW "E" PER TWIN'M TO A-2500A SKI AND A/C PERTINENT DATA		
H	1-20-64	ADDED PA-18 & PA-13 TO NOTE		
J	4-12-74	ADDED CHART & REVISED NOTES		

	J3	J3C	J3F	J3L	J4	J4A	J5A	J5B	J5C	PA-11	PA-12	PA-14	PA-15	PA-16	PA-17	PA-18	PA-13	PA-20	PA-20-115	PA-20-135
A-1500	X	X	X	X	X	X	X	X		X			X		X	X				
A-1500A	X	X	X	X	X	X	X	X		X			X		X	X				
A-1850	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A-2000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A-2000A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A-2500A																	X	X	X	
CA-1850-8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
RIGGING KIT 11A129	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ADAPTER KIT 11A112	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BUSHING SET 11A102	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RIGGING KIT 11A126																	X	X		
BUSHING SET 11A289																	X	X	X	
RIGGING ATTACH. KIT 11A261							X			X	X									

GENERAL NOTES:

1. MODELS A-1500 THRU A-2000A MAY BE USED ON PA-15 ONLY IF THE ORIGINAL LANDING GEAR IS REPLACED WITH SHOCK CORD STRUT AS INSTALLED ON MODEL PA-17 (PIPER PART NUMBER 11805).
2. ⚠1 THE WEIGHT OF THE WHEELS MUST BE DEDUCTED FROM THE WEIGHT OF THE SKI INSTALLATION TO FIND THE NET CHANGE, EXCEPT WHEN USING SKI MODEL CA-1850-8.
3. ADD 0.35# TO WEIGHT OF INSTALLATION WHEN 11A261 KIT IS USED.

TABLE OF WEIGHTS

	A-1500	A-1500A	A-1850	A-2000	A-2000A	CA-1850-8	A-2500A
MAIN SKIS PER PAIR	28.50	31.12	29.74	32.74	40.00	46.00	64.75
RIGGING KIT (11A129)	3.75	3.75	3.75	3.75	3.75	3.75	
ADAPTER KIT (11A112)	3.25	3.25	3.25	3.25	3.25		
BUSHING SET (11A102)	1.25	1.25	1.25	1.25	1.25		
RIGGING KIT (11A126)							6.00
BUSHING SET (11A289)							3.75
TOTAL WT. PER INSTALL	36.75	39.37	37.99	40.99	48.25	49.75	74.50

11R262

NOTE:
COMPLIANCE WITH THIS DRAWING DOES NOT CONSTITUTE AUTOMATIC APPROVAL OF THE SKI INSTALLATION. FINAL APPROVAL MUST BE OBTAINED FROM THE C.A.A. INSPECTOR.

QTY		
	FOR USE W/ A-2500A SKI ON PA-20 ONLY	
1	RIGGING KIT	11A126
1	BUSHING SET	11A289
1	RIGGING KIT	11A129
1*	RIGGING ATTACH. KIT	11A261
1**	BUSHING SET	11A102
1**	ADAPTER KIT	11A112
SHOWN	MAIN SKI MODEL CA-1850-8	10R211
	MAIN SKI MODEL A-1500 *	A-1500
SEE	MAIN SKI MODEL A-1500A *	10R1391
CHART	MAIN SKI MODEL A-1850	A-1950
	MAIN SKI MODEL A-2000	A-2000
	MAIN SKI MODEL A-2000A	10R193

(*) WHEN SKI MODEL CA-1850-8 IS INSTALLED BUSHING SET (11A102) ONE EACH PER KIT (11A261) ONLY. NOT REQUIRED

REVS.	NEXT ASSEMBLY	MODEL	FINISH		CAGE	MAIN SKI MODEL A-2500A	TOP ASS'Y
WT. SEE TABLA	SCALE NOTED		HEAT TREAT		BASIC NO.	DESCRIPTION	QUAN.
UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS FINAL AFTER PLATING. 2. SHARP EDGES BREAK .02 - .06 R. 3. ALL DIMENSIONS IN DECIMALS. 4. LOCATE BY DIMENSIONS UNLESS OTHERWISE SPECIFIED. FRACTIONAL DECIMALS ± .031 ± .100 TWO PLACE DECIMALS ± .010 ± .020 THREE PLACE DECIMALS ± .005 ± .010 FOUR PLACE DECIMALS ± .0050 ± .0100 ANGLES ± 1°							
			DRAWN	6-18-48			
			TRACED				
			CHECK	6-19-48			
			ENGR APPR	7-6-48			
			PROJ ENGR				
			SUPV				

INSTALLATION, FEDERAL SKI
PIPER AIRCRAFT

AIRCRAFT DWG NO. 11R262 REV. J